

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 56-130753

(43)Date of publication of application : 13.10.1981

(51)Int.Cl.

G03F 7/02
B41C 1/10

(21)Application number : 55-071034

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(22)Date of filing : 28.05.1980

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(54) MANUFACTURE OF PRINTING PLATE FOR LITHOGRAPHIC PRINTING

(57)Abstract:

PURPOSE: To manufacture the titled printing plate which requires no wetting water while discriminating the degree of its treatment accurately, by providing a cured film layer of organopolysiloxane containing specific dyes on a substrate and by selectively plasma-treating it.

CONSTITUTION: Dyes (e.g. crystal violet lacton, colorless leuco dye) which colors by coming in contact with an activated chemical seed in a plasma state is used. Namely, organopolysiloxane cured film layer 2 of about 2W50 μ m film thickness containing about 0.01W5wt% said dyes is provided on substrate 1 and on it, protection layer 3 is formed in a pattern shape. Next, the part of said cured film layer 2 which is not covered with protection layer 3 is made lipophilic by performing a chemical treatment by plasma to form printing element part 2' having the property of receiving picture, and then protection layer 3 is removed to obtain the printing plate. In the said method, the degree of the plasma treatment is discriminated by the coloring of layer 2.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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